SONAT EXPLORATION COMPANY

SOUTHERN NATURAL RESOURCES TOWER
5599 SAN FELIPE ROAD
P. O. BOX 1513
HOUSTON, TEXAS 77001

November 10, 1981

Department of Natural Resources Division of Oil, Gas and Mining 1588 West, North Temple Salt Lake City, Utah 84116

RE: Application for Permit to Drill SONAT Baranger #1-23 B2 Sec. 23, T2S, R2W Duchesne County

Gentlemen:

Enclosed, in triplicate, is Form OGC-la, "Application for Permit to Drill" concerning the subject well. Also, included are the location plats and BOP schematic.

SONAT Exploration Company requests an exemption to the subject well's spacing requirements as stated in Statewide Order 131-14.

The original location, 1320'FNL and 1520'FEL of Sec. 23, was found to be situated in a creek bed, as shown in the enclosed topographical map. Due to this hazard, we wish to move the location. The new proposed location, 1123'FNL and 1557'FEL of Sec. 23, T2S, R2W, is also shown on the enclosed map.

With this in mind, we respectfully request a variance to Order 131-14 and approval of our proposed location as shown on the certified plat.

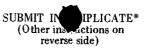
Very truly yours,

SONAT EXPLORATION COMPANY

D. E. Richards

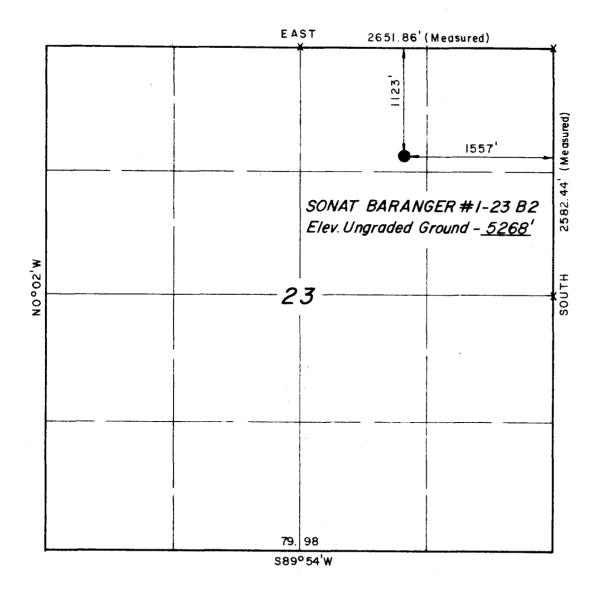
Senior Drilling Engineer

DER/BTS/jlp Enclosures



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING 5. Lease Designation and Serial No. FEE 6. If Indian, Allottee or Tribe Name APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 1a. Type of Work 7. Unit Agreement Name PLUG BACK | DRILL X DEEPEN | b. Type of Well 8. Farm or Lease Name Single Zone Multiple Zone Oil X Gas Well Other 2. Name of Operator Baranger 9. Well No SONAT Exploration Company 3. Address of Operator 1-23 B2 10. Field and Pool, or Wildcat P.O. Box 1513; Houston, TX 4. Location of Well (Report location clearly and in accordance with any State requirements.*) Unknown L NWNE 11. Sec., T., R., M., or Bli and Survey or Area 1123' FNL & 1557' FEL of Section 23, T2S, R2W At proposed prod. zone Same as above Sec. 23, T2S, R2W 14. Distance in miles and direction from nearest town or post office* 12. County or Parrish 13. State 4.3 miles west of Roosevelt Utah Duchesne 15. Distance from proposed*
location to nearest
property or lease line, ft.
(Also to nearest drlg. line, if any) 17. No. of acres assigned to this well 16. No. of acres in lease 230' 50 640 18. Distance from proposed location*
to nearest well, drilling, completed,
or applied for, on this lease, ft. 19. Proposed depth 20. Rotary or cable tools 12,500 N/A Rotary 21. Elevations (Show whether DF, RT, GR, etc.) 22. Approx. date work will start* 5268' (Ungraded ground level) December, 1981 23. PROPOSED CASING AND CEMENTING PROGRAM Size of Hole Quantity of Cement Size of Casing Weight per Foot Setting Depth 16" 24" 65# 300 500 SX 2-1/4" <u>10-3/4"</u> 460 sx 5<u>1</u># 5500 7-5/8" 9-5/8" 33.7# 8500 9-5/8" 7-5/8" 39# (8500-10,000') 475 sx 5" 6-1/2" 18# (9700-12,500') LINER 310 sx IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any, 24.

Date 11-10-81 Title Sr. Drilling Engineer Signed. (This space for Federal or State office use) Permit No..... Approval Date .. Approved by ... Title Date. Conditions of approval, if any:



X = Section Corners Located

PROJECT

SONAT EXPLORATION COMP.

Well location, SONAT BARANGER # /- 23 B2, located as shown in the NW I/4 NE I/4 Section 23, T2S, R2W, U.S.B.&M. Duchesne County, Utah.



CERTIFICATE

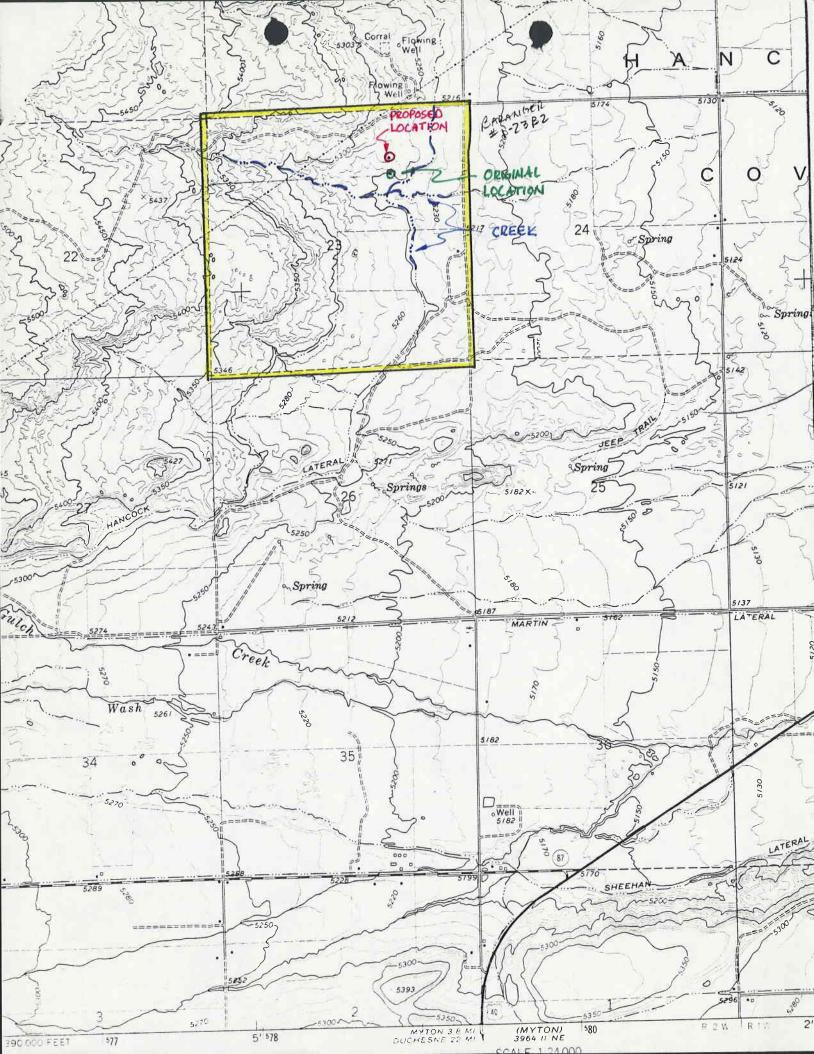
THIS, IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

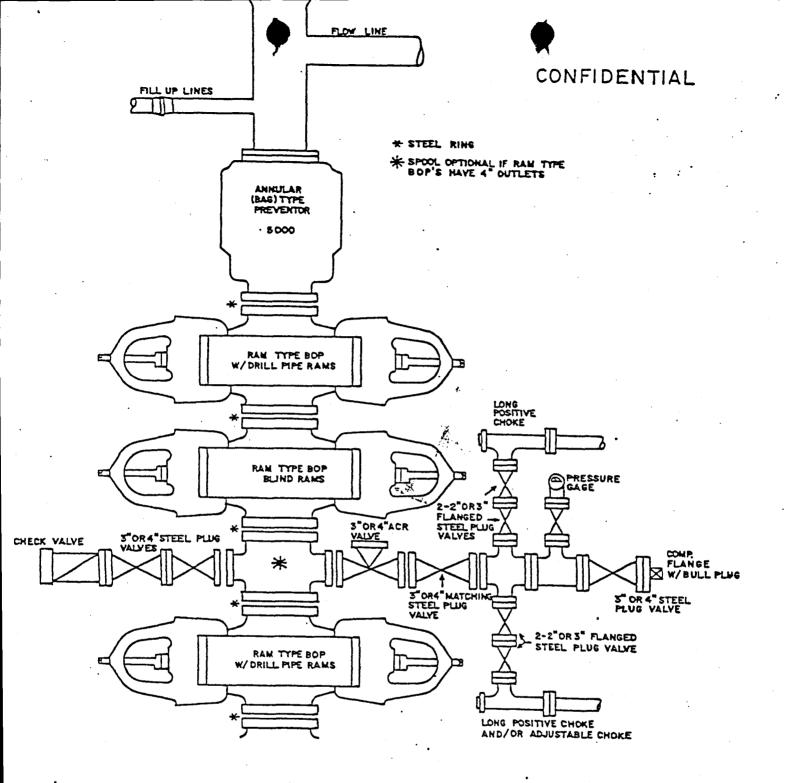
Stane Sewant
REGISTERED LAND SURVEYOR

REGISTERED LAND SURVEYOR REGISTRATION Nº 3 | 5 4 STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P.O. BOX Q — 85 SOUTH - 200 EAST
VERNAL, UTAH - 84078

2			
SCALE	1" = 1000'	DATE 10/15/81	
PARTY	RT MM GS RP	REFERENCES GLO Plat	
WEATHER	Fair	FILE	





SURFACE Csg BOP PROGRAM = 5000 WP psi PROTECTIVE Csg BOP PROGRAM = 5000 WP psi

SONAT EXPLORATION COMPANY
HOUSTON, TEXAS

STANDARD BOP HOOKUP
FOR SURFACE

DATA HIS REFERENCE FILE

8036-2

AND PROTECTION CASING

JONES, WALDO, HOLBROOK & McDonough

A PROFESSIONAL CORPORATION

ATTORNEYS AND COUNSELORS

DONALD B. HOLBROOK CALVIN L. RAMPTON ROGER J. McDONOUGH W. ROBERT WRIGHT RANDON W. WILSON RONALD J. OCKEY ROBERT M. MCDONALD JACK LUNT EDWARD J. MCDONOUGH JAMES S. LOWRIE RONNY L. CUTSHALL MICHAEL R. MURPHY CHRISTOPHER L. BURTON LARRY C. HOLMAN WILLIAM B. BOHLING D, MILES HOLMAN ROBERT S. MCCONNELL GLEN D. WATKINS ANDREW W. BUFFMIRE RUSSELL H. LOWE ROBYN O. HEILBRUN

SUZANNE M. DALLIMORE THOMAS E. K. CERRUTI CRAIG R. MARIGER LAWRENCE J. JENSEN DAVID B. LEE* LEGRAND R. CURTIS, JR. GRETTA C. SPENDLOVE GREGG I. ALVORD KENT T. ANDERSON TIMOTHY B. ANDERSON SUZANNE WEST MARK N. SCHNEIDER WILLIAM G. STEHLIN REX P. BURGON L. JOHN LEWIS G. RAND BEACHAM RANDALL N. SKANCHY JANET C. GRAHAM BRIAN W. STEFFENSEN

OF COUNSEL JOSEPH S. JONES

November 13, 1981

* ADMITTED AND RESIDENT IN WASHINGTON, D.C.

SALT LAKE CITY OFFICE

800 WALKER BUILDING SALT LAKE CITY, UTAH 84111 TELEPHONE (801) 521-3200 TELECOPIER 521-3200 EXT 223

WASHINGTON D.C. OFFICE

SUITE 200 2000 L STREET, N.W. WASHINGTON, D.C. 20036 TELEPHONE (202) 296-5950 TELECOPIER 833-3843

ST. GEORGE OFFICE

ONE SOUTH MAIN STREET ST. GEORGE, UTAH 84770 TELEPHONE (801) 628-1628

SHEEKS & RAWLINS RAWLINS & CRITCHLOW 1891
RAWLINS, THURMAN, WEDGEWOOD & HURD 1897 RAWLINS, RAY & RAWLINS 1907 INGEBRETSEN, RAY & RAWLINS INGEBRETSEN, RAY, RAWLINS & CHRISTENSEN INGEBRETSEN, RAY, RAWLINS & JONES 1941 RAY, RAWLINS, JONES & HENDERSON 1949

IN REPLY REFER to: SLC Office

OIL, GAS & MINING DIVISION OF

HAND DELIVERED

Department of Natural Resources Division of Oil, Gas and Mining 1588 West North Temple Salt Lake City, UT 84116

LEGI S TAUN

Application for Permit to Drill, SONAT Baranger No. 1-23 B2, Section 23, T2S, R2W, Duchesne County, Utah

Gentlemen:

On behalf of SONAT Exploration Company, I submit herewith an Application for Permit to Drill, with attachments.

Please note that SONAT requests an exception to presently applicable spacing requirements for the proposed well. The exception is sought for topographical reasons and thus, according to the Order in Cause No. 131-14, may be granted administratively without a hearing.

When the drilling permit is issued, please sent it to me at this office. In the meantime, please contact me if you have any questions or comments.

Thank you very much for your attention to this matter.

egg

Yours very

m.

tru/ly,

Alvord

GIA/1jh Enclosure

** FILE NOTATIONS **

DATE: november 1	3, 1981
OPERATOR: Sonat	Exploration company
WELL NO: Barange	n #1-23B2
	T. 25 R. 2W County: Durhesne
File Prepared:	Entered on N.I.D:
Card Indexed:	Completion Sheet:
	API Number 43-0/3-306/9
CHECKED BY:	,
Petroleum Engineer	•
Director: oK a	oper order rosel carse 131-14
Administrative Aide	e: ph'as Pu Order Below, topographia
APPROVAL LETTER:	ak /
Bond Required:	Survey Plat Required:
Order No. <u>131-14</u> ,	8-11-71 O.K. Rule C-3
Rule C-3(c), Topogr withir	raphic Exception - company owns or controls acreage a 660' radius of proposed site
Lease Designation	Fee Plotted on Map
•	Approval Letter Written
Hot Line	P.I.

November 13, 1981

Sonat Exploration Company P. O. Box 1513 Houston, Texas 77001

RE: Well No. Baranger #1-23B2, Sec. 23, T. 2S, R. 2W, Ducheene County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well at said unorthodox location is hereby granted in accordance with the Order issued in Cause No. 131-14, dated August 11, 1971.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to <u>immediately</u> notify the following:

MICHAEL T. MINDER - Petroleum Engineer Office: 533-5771 Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-013-30619.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cleon B. Feight Director

CBF/db CC: OGM Sonat Exploration ompany Post Office Box 151 Houston TX 77251 1513 713 940 4000

S@NAT EXPLORATION

State of Utah Department of Natural Resources Division of Oil, Gas and Mining 1588 West North Temple Salt Lake City, Utah 84116

February 12, 1982

Subject: Baranger #1-23B2

Sec. 23, T2S, R2W Duchesne County, Utah



Gentlemen:

Sonat Exploration Company requests an extension to the drilling permit issued on November 13, 1981 for the Baranger #1-23B2 in Duchesne County, Utah (API No. 43-013-30619). We anticipate drilling to begin in May of this year.

Your assistance in this matter will be greatly appreciated. If you require additional information, please call me at 713/940-4014.

Sincerely,

D. E. Richards

Senior Drilling Engineer

& Diparts

DER/BTS/JAZ

Sonat Exploration
Post Office Box 1513
Houston TX 77251 1513
713 940 4000

S@NAT EXPLORATION

April 6, 1982

Re: Sonat-Strand-Baranger #1-23B2

Sec. 23, T2S, R2W Duchesne County, Utah

State of Utah Department of Natural Resources Division of Oil, Gas and Mining 1588 West North Temple Salt Lake City, Utah 84116

Gentlemen:

Enclosed, in triplicate, are Forms OGC-1b, "Sundry Notices and Reports on Wells," concerning the subject well. Sonat is requesting approval to change the well name to Sonat-Strand-Baranger #1-23B2 from the Baranger #1-23B2.

If you require additional information, please call me at 713/940-4014.

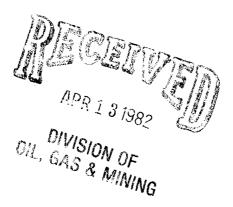
Sincerely,

D. E. Richards

Senior Drilling Engineer

DE Richards

DER/BTS/jlp Enclosures



(This space for Federal or State office use)

STATE OF UTAH



SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. OIL WELL OTHER NAME OF OPERATOR Sonat Exploration Company ADDRESS OF OPERATOR P. O. Box 1513; Houston, TX 77251-1513 COCATION OF WELL (Report location clearly and in accordance with any State requirements.* 10. FIR dat surface 1123' FNL & 1557' FEL of Section 3, T2S, R2W Sec.	#1-23B2 Wildcat Wildcat C., T., E., M., OR BLE. AND BURYEY OR AREA 23, T2S, R2W UNITY OR PARISH 13. STATE esne Utah
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NAME OF OFFEATOR Sonat Exploration Company ADDEESS OF OFFEATOR O. O. Box 1513; Houston, TX 77251-1513 COCATION OF WELL (Report location clearly and in accordance with any State requirements.* 10. FIR See also space 17 below.) At surface 1123' FNL & 1557' FEL of Section 3, T2S, R2W 11. ass Sec. PERMIT NO. 15. BLEVATIONS (Show whether DF, NT, OR, etc.) Check Appropriate Box To Indicate Nature of Notice, Report, or Other December of Notice of Intention to: SUBSEQUENT REPORT TREAT MULTIPLE COMPLETE FRACTURE TREAT MULTIPLE COMPLETE FRACTURE TREATMENT SHOOT OR ACIDIZE ABANDON* REPAIR WELL CHANGE PLANS (Other) Change Well name SCRIBE PHONOSED OR COMPLETED OPERATIONS (Clearly State all pertinent details, and give pertinent dates, including nervices to this work.)* Sonat Exploration Company requests approval to change the well	at - Strand - Barange #1-23B2 HID AND FOOL, OR WHILDCAT Wildcat C., T., L., X., OR BLK. AND HURVEY OR AREA 23, T2S, R2W UNTY OR FARISH 13. STATE esne Utah
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(Other) Change Well name (Note: Report results of multi- Completion or Recompletion Rep ESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly State all pertinent details, and give pertinent dates, including proposed work, if well is directionally drilled, give subsurface locations and measured and true vertical depths nent to this work.)* Sonat Exploration Company requests approval to change the well	ABANDONMENT*
ESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including proposed work.) f well is directionally drilled, give subsurface locations and measured and true vertical depths nent to this work.)	
Sonat Exploration Company requests approval to change the well	ple completion on Well ort and Log form.)
	name
APPROVED BY TH OF UTAH DIVISION OIL, GAS, AND NO DATE: 5/1/7 BY: Carrey	ON OF
hereby certify that the foregoing is true and correct	
IGNED DE RIME TITLE Senior Drilling Engineer	April 6, 1982

DATE _

TITLE .

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPAN	SONAT EX	PLORATION COM	PANY		
WELL NAME:	Sonat Strand-	Baranger #1-2	3B2		
SECTIONNWNE 23	Township2	s RANGE	2 W (COUNTY_	Duchesne
DRILLING CONTRA	ACTORTanscon	tinental			
RIG #57	·				
SPUDDED: DATE	5-23-82				
TIME	8:00 AM				
How	Rotary				
DRILLING WILL O	Bryan Simmons		-		
	713-940-4018		-	,	
DATE May	20, 1982		SIGNED_	SLC	

Sonat Exploration Company Post Office Box 15. Houston TX 77251 1513 713 940 4000

S@NAT EXPLORATION

June 3, 1982

Re: Sonat-Strand-Baranger #1-23B2

Sec. 23, T2S, R2W Duchesne County, Utah

State of Utah Department of Natural Resources Division of Oil, Gas and Mining 1588 West North Temple Salt Lake City, Utah 84116

Gentlemen:

Enclosed, in triplicate, is Form OGC-1b, "Sundry Notices and Reports on Wells," requesting approval to alter the casing design and deepen the well.

If you require additional information, please call me at 713/940-4014.

Sincerely,

D. E. Richards

Senior Drilling Engineer

DER/BTS/jlp Enclosures

> NEGETVED Sei 0 1 NUL

DIVISION OF OIL, GAS & MINING

(This space for Federal or State office use)

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES



DIVISION OF OIL, GAS, AND MINING	5. LEASE DESIGNATION A	IND SERIAL NO.
	FEE	
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)	6. IF INDIAN, ALLOTTES	OR TRIBE NAME
	7. UNIT AGREEMENT NAM	(#
WELL WELL OTHER 2. NAME OF OPERATOR		
	8. FARM OR LEASE NAME	
Sonat Exploration Company 3. ADDRESS OF OPERATOR	Sonat-Strand-	baranger
P. O. Box 1513; Houston, TX 77251-1513	#1-23B2	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)	10. FIELD AND POOL, OR	WILDCAT
At surface	Wildcat 11. asc., T., S., M., OR al	F 198
1123' FNL & 1557' FEL of Section 23, T2S, R2W	SURYEY OR ASSA	2. 28b
14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, sta.)	Sec. 23, T2S,	
43-013-30619 5268' (Ungraded Ground Level)	Duchesne	Utah
Check Appropriate box to indicate ladiuse of laotice, kepon, of Ot		
NOTICE OF INTENTION TO:	NT REPORT OF:	$\overline{}$
TIST WATER SHUT-OFF PULL OR ALTER CASING X WATER SHUT-OFF	REPAIRING WE	
FRACTURE TREAT MULTIPLE COMPLETE PRACTURE TREATMENT SHOOT OR ACIDIZE ABANDON® SHOOTING OR ACIDIZING	ALTERING CAS	
REPAIR WELL CHANGE PLANS (Other)		
(Other) (Note: Report results of Completion or Recomplet	of multiple completion on tion Report and Log form	ı Well
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, i proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical nent to this work.)	ncluding estimated date depths for all markers a	of starting any and zones perti
Sonat requests approval to change the surface pipe depth to 3 Also, we would like to deepen the well to 13,000' from 12,500 reservoir.	000' from 5500 in the same	'.
NOTE: Verbal approval to alter the surface casing depth was Mr. Ron Firth on June 2, 1982.	obtained from	
		•
APPROVED BY THE STAT	E	-
OF UTAH DIVISION OF		
OIL, GAS, AND MINING		
DATE:		
BY:	المشرب	
	•	
18. I hereby certify that the foregoing is true and correct		
SIGNED MAL JAMPHW TITLE Senior Drilling Engineer	DATE June	3, 1982

DATE .

Sonat Explora Company Post Office Box Houston TX 77251 1513 713 940 4000

S©NAT EXPLORATION

June 23, 1982

RE: Sonat-Strand-Baranger #1-23B2

Sec. 23, T2S, R2W Duchesne County

State of Utah
Department of Natural Resources
Division of Oil, Gas & Mining
1588 West North Temple
Salt Lake City, Utah 84116

Gentlemen:

Enclosed, in triplicate, is Form OGC-8-X, "Report of Water Encountered During Drilling," along with a Water Analysis Report concerning the subject well.

If you require additional information, please call me at 713/940-4014.

Sincerely,

D. E. Richards

Senior Drilling Engineer

DER/BTS/jlp Enclosures

Bananger #1 382 Hinta Research and Analytical Services

P.O. BOX 14BB 本 ROOSEVELT 等UTAH 第4066

James F. Smith

WATER ANALYSIS REPORT

(801) 722-2532

		NALISIS REPORT		7 / 22-2332	
COMPANY		_ADDRESS_Roosevel	t, Utah	DATE:_	5-29-82
SOURCE Water Pumped f		_DATESAMPLED5-2	9 - 82A	NALYSIS NO	11_229
well in Hancock C Analy	ove, Roosevelt Utah	Mg/l		•Meq.	
1. PH	6.45				
2. H2S (Qualitative)					•
3. Specific Gravity	1.005				
4. Dissolved Solids		3411.8	1		
5. Suspended Solids		•			
6. Phenolphthalein Alkalini	ty (CaCO3)	_0			
7. Methyl Orange Alkalinity	(CaCO3)	_200			
8. Bicarbonate (HCO ₃)	٠.	HCO ₃ _2/ ₁ / ₂	÷ 61	4.00	HCO₃
9. Chlorides (CI)		CI 800	÷ 35.5	22.54	CI
10. Sulfates (SO ₄)		so. 1200	÷ 48	25.00	SO ₄
11. Calcium (Ca)	· ·	Ca 65	÷ 20	3.25	Ca
12. Magnesium (Mg)		мg 9	<u> </u>	•74	Мд
13. Total Hardness (CaCO ₃))	200	· · · · · · · · · · · · · · · · · · ·		
14. Total Iron (Fe)		5			
15. Barium (Qualitative)	•				
16. Conductivity		mmHos_5400	p	_{pm} <u>43038</u>	
*Milli equivalents per liter		RW@	C		
	PROBABLE M	INERAL COMPOSITION	ON		
Ca ~	HCO3	Compound	Equiv. Wt. X	Meq/L	= Mg/L
3.25	4.00	Ca (HCO3)2	81.04	3.25	263.38
.74 Mg	> so, 25.00	Ca SO4	68.07	0	0
47.55 Na	CI 22.54	Ca Cl2	` 55.50	0	0
Saturation Values	Distilled Water 20°C	Mg (HCO3)2	73.17	.74	54.15
Ca CO3 Ca SO4+2H2O	13 Mg/L 2,090 Mg/L	Mg SO4	60.19	0	0
Mg CO ₃	103 Mg/L	Mg Cl2	47.62	0	0
Remarks:		Na HCO3	84.00	01	_8/4
		Na2 SO4	71.03	25.00	1775.75
		Na CI	58.46	22.54	1317.69
					
		Thank you f	or the business:		
		·			

Sonat Exploration mpany Post Office Box 1513 Houston TX 77251 1513 713 940 4000

SENAT EXPLORATION

June 30, 1982

Re: Well Status Report

Sonat-Strand-Baranger #1-23B2

Sec. 23, T2S, R2W Duchesne County, Utah

State of Utah
Department of Natural Resources
Division of Oil, Gas, and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Gentlemen:

5/22/82 thru 6/25/82 TD @ 9300' MW @ 10.7 ppg

Cemented 13-3/8" @ 250' with 385 sx C1 "H." Cut off 13-3/8" csg. Spud well at 0800 hr. 5/23/82. Ran 10-3/4" csg to 2970'. Cemented with 645 sx + additives, cement water cut at surface. RU Halliburton and squeezed 10-3/4" annulus. WOC. ND BOPs and cut off 10-3/4". NU wellhead and tested same. NU & tested BOPs. Tested csg to 1000 psi. Drilling.

D. E. Richards

Senior Drilling Engineer

713/940-4014

JUL 07 1982

DIVISION OF OIL, GAS & MINING Sonat Exploration Company Post Office Box 15 Houston TX 77251 1513 713 940 4000

S@NAT EXPLORATION

July 9, 1982

RE: Well Status Report

Sonat-Strand-Baranger #1-23B2

Section 23, T2S, R2W Duchesne County, Utah

State of Utah Department of Natural Resources Division of Oil, Gas and Mining 1588 West North Temple Salt Lake City, Utah 84116

Gentlemen:

6/26/82 thru 7/9/82 TD @ 10,831' MW @ 14.5 ppg

Drilling. RU Schl. and ran DIL/Sonic/GR. Ran 7-5/8" csg. and set at 9746'. RU Hal. Cemented with 250 sx. CL "H" light + additives followed with 200 sx CL "H" + additives. RD Hal. ND and tested BOP's. WIH with $3\frac{1}{2}$ " DP. Tested csg. to 1000 psi. Drilling.

D. E. Richards

Senior Drilling Engineer

713/940-4014

JULI 6 1982

DIVISION OF OIL, GAS & MINING

S@NAT EXPLORATION

August 23, 1982

Re: Well Status Report

Sonat-Strand-Baranger #1-23B2

Section 23, T2S, R2W Duchesne County, Utah

State of Utah
Department of Natural Resources
Division of Oil, Gas, and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Gentlemen:

7/10/82 thru 8/16/82

AUG 30 1982

DIVISION OF OIL, GAS & MINING

Drilling. POH. Left 355.59' of fish in hole. Fish: bit, ST, DC, ST, 11 DCs. TOF = 11,758'. Circ. BU. Pumped slug & POH. Jarred fish loose. Recovered all fish. Drilling. Lost 5000# wt. on indicator, twisted off. POH. TOF @ 12,232'. Latched fish. POH with full recovery. Drilling. Pipe stuck at 12,995'. Jarred free. CCM to log. Ran Density & Sonic logs from TD to csg. shoe. CCM to run liner. POH. RU and ran 5" liner to 12,993'. Hung TOL at 9422'. Released liner and set liner packoff. POH. Top of CTC pkrs. at 12,156' & 10,915'. WIH with BP, RTTS and 2-3/8" stinger on DP to 12,650'. Set BP at 12,650'. Tested to 2000 psi - ok. Spotted 6 bbl of Cl "H" + 0.5% HR4. PU and set RTTS at 11,760'. Pressured up to 3700 psi. Pumped in only 1/4 bbl max into CTC pkr. at 12,156'. Cir. out cmt. to BP. PU and reset BP at 11,500'. OK. Displaced 6 bb1 C1 "H" + 0.5% HR5. PU & set RTTS at 10,554'. Pressured up to inflate upper ext. pkr. Pumped in small amt. of cmt. Washout down to BP. Released BP and POH. WIH with 7-5/8" RTTS to 9250' to test TOL. Set RTTS. Displaced DP with water to 5500'. Opened well. No flow. Rev. out. POH. RU GO WL. Ran temp. survey 9200-12,994' verified ext. csg. pkrs are set. Reran GR-CCL. Perf with 3-1/8" Hyperdome gun with 3 JSPF at 12,252-945' (DIL 7/25/82). Set Otis "WD" pkr at 11,982'. LD 2-3/8" stinger. Tested BOPs. WIH with 2-7/8", 6.5 ppf, N80, ABC Mod. tbg. Could not circulate at 11,950'. Washed back into pkr. Land seal assby. Tested annulus to 500 psi. Pulled out of pkr. Displaced mud with 11.1 MgCl2 water. WIH with 2-3/8" heat string. Land tbg. ND BOPs. NU tree. Tested to 5M psi. RU Hal. on 2-7/8" & shear pump out plug with 3200 psi. Displaced heat string & annulus with FW. RU hot oiler & circ. heat string. Opened well. Swabbed well. WIH with spear on 1/4". Fished for

swab tools. Rec. 2' of WL. Caught fish @ 9843'. POH. Full recovery. ND BOP. NU tree. RU to swab. NU X-mas tree. RU swab unit. Swabbed well. Released rig @ 2200~hr.

D. E. Richards

Senior Drilling Engineer

713/940-4014

S@NAT EXPLORATION

September 3, 1982

RE: Well Status Report

Sonat-Strand-Baranger #1-23B2

Section 23, T2S, R2W Duchesne County, Utah

State of Utah Department of Natural Resources Division of Oil, Gas and Mining 1588 West North Temple Salt Lake City, Utah 84116

Gentlemen:

8/17/82 thru 9/3/82

Swabbed the well. SI well. Waiting on orders.

Senior Drilling Engineer

713/940-4014

DECENVEDO SEP 08 1982

> DIVISION OF OIL, GAS & MINING

DEPARTMENT OF NATURAL RESOURCES

SUBMIT	IN	TRIPLICATE*
		structions on
	tve I	se side)

DIVISION OF OIL, GAS, AND MINING			5. LEASE DESIGNATION AND SERIAL NO. FEE	
SUNDRY NO (Do not use this form for pro Use "APPLI	OTICES AND REPORTS possis to drill or to deepen or plug ICATION FOR PERMIT—" for such p	ON WELLS back to a different reservoir. proposals.)	6. IF INDIAN, ALLOTTE	OR TRIBE NAME
I. OIL X GAB OTHER			7. UNIT AGREEMENT NA	ME
2. NAME OF OPERATOR Sonat Exploration Comp	any		8. FARM OR LEASE NAM Sonat-Strand-Ba	
P. O. Box 1513, Houston	•		9. WELL NO. #1-23B2	
4. LOCATION OF WELL (Report location See also space 17 below.) At surface	clearly and in accordance with any	State requirements.*	10. FIELD AND POOL, OF Unknown	WILDCAT
1123'FNL & 1557'FEL (of Section 23, T2S, R2W	1	11. asc. 7. a., M., OR a SURVEY OR AREA Sec. 23, T2S	
14. PERMIT NO. 43-013-30619	15. SLEVATIONS (Show whether DE 5268 (Ungraded G	f, RT, GR, etc.) L)	12. COUNTY OF PARISH Duchesne	18. STATE Utah
16. Check A	Appropriate Box To Indicate N	Nature of Notice, Report, or O	ther Data	,
NOTICE OF INT	ENTION TO:	UDPREUR	ENT REPORT OF:	
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING W	TELL
FRACTURE TREAT	MULTIPLE COMPLETE	PRACTURE TREATMENT	ALTERING CA	BING
SHOOT OR ACIDIZE	ABANDON*	SHOUTING OR ACIDIZING	ABANDONMEN	T*
(Other) Reperforate	CHANGE PLANS	(Other) (NOTE: Report results of Completion or Recomple	of multiple completion of tion Report and Log for	on Well
 DESCRIBE PROPOSED OR COMPLETED OF proposed work. If well is direct nent to this work.) 	PERATIONS (Clearly state all pertinen tionally drilled, give subsurface local	it details, and give pertinent dates, it tions and measured and true vertical	ncluding estimated date depths for all markers	of starting any and zones perti-

Sonat requests approval to reperforate the following intervals with 4JSPF at 12,252-254'; 12,401-404'; 12,502-506'; 12,590-596'; 12,768-774'; and 12, 814-824' DIL. Subsequently, an acid job will be performed on the present completion.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE:
BY:

18. I hereby certify that the foregoing is true and co	Senior Drilling Engineer	September 8, 1982
(This space for Federal or State office use)		
APPROVED BYCONDIES. VS OF APPROVAL, IF ANY:	TITLE	DATE



SENAT EXPLORATION

September 8, 1982

RE: Sonat-Strand-Baranger #1-23B2 Section 23, T2S, R2W Duchesne County

State of Utah Department of Natural Resources Division of Oil, Gas & Mining 1588 West North Temple Salt Lake City, Utah 84116

Gentlemen:

Enclosed, in triplicate, is Form OGC-1b, "Sundry Notices and Reports on Wells" requesting approval to reperforate and acidize the subject well.

If you require additional information, please call me at 713/940-4014.

Sincerely,

D. E. Richards

Senior Drilling Engineer

5 Lichard

DER/BTS/sa

Enclosures

M

S©NAT EXPLORATION

September 13, 1982

Re: Sonat-Strand-Baranger #1-23B2

Section 23, T2S, R2W Duchesne County

State of Utah
Department of Natural Resources
Division of Oil, Gas, & Mining
1588 West North Temple
Salt Lake City, Utah 84116

Gentlemen:

Enclosed, in triplicate, is Form OGC-1b, "Sundry Notices and Reports on Wells," concerning the subject well.

If you require additional information, please call me at 713/940-4014.

Sincerely,

D. E. Richards

Senior Drilling Engineer

DER/BTS/j1p Enclosures SEP 21 1982

DIVISION OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

SUBMINAN TRIPLICATE*
(Other instructions on reverse side)

	SION OF OIL, GAS, AND I	MITATIVO	5. LEASE DESIGNATION AND SERIAL NO.	
			FEE	
SUNDRY NO (Do not use this form for pro Use "APPL	OTICES AND REPORTS posals to drill or to deepen or plu iCATION FOR PERMIT—" for such	ON WELLS g back to a different reservoir. h proposais.)	6. IF INDIAN, ALLOTTE	E OR TRIBE NAME
OIL TO GAS			7. UNIT AGREEMENT NA	MB
WELL A WELL OTHER				
NAME OF OPERATOR			8. FARM OR LEASE NAM	
Sonat Exploration Co	mpany		Sonat-Strand	a-Baranger
P. O. Box 1513; Hous	ston, TX 77251-1513		#1-23B2	
LOCATION OF WELL (Report location See also space 17 below.) At surface	1 clearly and in accordance with a	ny State requirements.*	10. FIELD AND FOOL, OF	R WILDCAT
1123' FNL & 1557' FF	EL of Section 23, T2S	, R2W	11. SEC., T., R., M., OR E SURVEY OR AREA	ILK. AND
1. PERMIT NO.	15. BLEVATIONS (Show whether	NS NN do ata	Sec. 23, T25	
43-013-30619	5268' (Ungrade		Duchesne	Utah
·				i ULAII
· Check A	Appropriate Box To Indicate	Nature of Notice, Report, or	Other Data	
NOTICE OF INT	ENTION TO:	SUBSEC	UENT REPORT OF:	
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING W	FELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CA	SING
SHOOT OR ACIDIZE	ABANDON*	SHOOTING OR ACIDIZING	ABANDONMEN	T*
REPAIR WELL	CHANGE PLANS	(Other)	s of multiple completion of	n Well
(Other)		ent details, and give pertinent dates cations and measured and true vertice	oletion Report and Log for	m.)
SIGNED DE Richa	TITLE Se	enior Drilling Enginee	r_ _{DATE} Septe	ember 13, 1
. I hereby certify that the foregoing SIGNED Company (This space for Federal or State o	TITLE Se	enior Drilling Enginee	r_ DATE Septe	ember 13, 1

SONAT-STRAND-BARANGER #1-23B2 SECTION 23, T2S, R2W DUCHESNE COUNTY

The subject well has been perforated in the Wasatch formation as follows:

Reference: DIL-SFL Dated 7/25/82 3 shots/foot, 120°Phasing, at each depth

2 311013/100) 120 1 1. abin 6, at ca	asp
<u>Interval</u>	Depth Interval	Ft. of Perfs
1	12,942-945	3
2	929-935	6
3	911-916	5
4	12,893-899	6
5	878-882	4
6	867-870	3
7	849-854	5
8	813-828	15
9	12,794-798	4
10	762-774	12
11	746-752	6
12	722-728	6
13	704-708	4
14	12,691-695	4
15	686-689	3
16	677-684	7
17	666-672	6
18	645-648	3
19	639-642	3
20	624-632	8
21	12,590-596	6
22	<i>5</i> 70- <i>5</i> 7 <i>5</i>	5
23	560-567	7

<u>Interval</u>	Depth Interval	Ft. of Perfs
24	548-558	10
25	528-533	5
26	513-517	4
27	501 - 507	6
28	12,489-498	9
29	472-479	7
30	456-466	10
31	437-442	5
32	426-430	4
33	416-421	5
34	401-410	9
35	12,385-396	11
36	372-378	6
37	347-351	4
38	330-334	4
39	310-314	4
40	12,294-300	6
41	269-281	12
42	261-265	4
43	252-259	7

S@NAT EXPLORATION

September 17, 1982

Re: Well Status Report

Sonat-Strand-Baranger #1-23B2

Section 23, T2S, R2W Duchesne County, Utah

State of Utah Department of Natural Resources Division of Oil, Gas, and Mining 1588 West North Temple Salt Lake City, Utah 84116

Gentlemen:

9/4/82 thru 9/17/82

RU WL. WIH with bailer to 12,044' but couldn't work deeper. POOH. WIH w/IB to 12,044'. POOH. Imp. of piece of iron wedged in tubing. WIH w/sucker rod. Beat down and broke thru. Continued in hole to 12,851'. POOH. RD WL. RU McCullough. WIH with 1-9/16" Hyperdome gun to 12,900'. Perf at 12,814-824' w/4 JSPF. Perf at 12,095-104' w/4 JSPF. POOH. WIH w/gun #2. Stuck at 12,330'. Worked free. POOH to 12,330'. Couldn't pump the gun free. Fired lower section of gun @ 12,363-65' and gun came free. POOH. RD McCullough. RU Hal. Acidized w/50,000 bbl of 7-1/2% HCl. Initial SI pressure = 5130 psi. RD Hal. RU McCullough. Ran temp log from 9000-12,290'. Ran GR log from 10,700-12,290'. RD McCullough. SITP = 3500 psi. Opened well; bled to 0 psi in 20 min. RU WL. Tbg. cleaned to 12,900'. Swabbed to 5000'. Tbg. plugged at 10,200' and 10,500'. Rec. rubber and TLC (diverter) flakes. Broke thru plugs and WIH to 12,900'. Swabbed 5000' to 9000'. Tagged plug at 9000'. Rec. TLC flakes. Filled tbg. w/52 bbl water. RU WL. Bailed from 9200-15'. Plug moved up hole to 9100'. Bailed to 9110'. Recovered 100% TLC flakes. Tagged plug at 9100'. Bailed to 9184'. Bled pressure to O psi. Tagged plug at 8824'. Bailed to 8855'. Bailed 8845-79'. Rec. acid flakes. Plug moved to 8855'. Bailed to 8918'.

D. E. Richards Senior Drilling Engineer

Senior Drilling Enginee 713/940-4014

SEP 841982

DIVISION OF OIL, GAS & MINING

M

S©NAT EXPLORATION

September 23, 1982

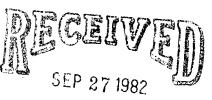
Re: Sonat-Strand-Baranger

#1-23B2

Section 23, T2S, R2W

Duchesne County

State of Utah Department of Natural Resources Division of Oil, Gas, and Mining 1588 West North Temple Salt Lake City, Utah 84116



DIVISION OF OIL, GAS & MINING

Gentlemen:

Enclosed, in triplicate, is Form OGC-lb, "Sundry Notices and Reports on Wells," concerning the subject well.

If you require additional information, please call me at 713/940-4014.

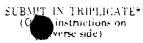
Sincerely, DE Kuchareh

D. E. Richards

Senior Drilling Engineer

BTS/jlp

ATE OF UTAH DEPARTMENT OF NATURAL RESOURCES



	SION OF OIL, GAS,		. .	5. LEASE DESIGNATION AND	AERIAL" NO.	
				FEE		
SUNDRY NO Do not use this form for prop Use "APPLIE	TICES AND REPOSITION FOR PERMIT—"			6. IF INDIAN, ALLOTTER OR	TRIBE NAME	
CIL GAS CTREE				7. UNIT AGREEMENT NAME		
2. NAME OF OPERATOR	·- <u></u>			8. FARM OR LEASE NAME		
Sonat Exploration Cor	Sonat-Strand-	Sonat-Strand-Baranger				
P. O. Box 1513; Houst	ton, TX 77251-1	513		#1-23B2		
4. LOCATION OF WELL (Report location See also space 17 below.) At surface			equirementa.	10. FIELD AND POOL, OR WILL Unknown	LDCIT	
1123' FNL & 1557' FE	L of Section 23,	T2S, R2W		11. ABC., T., L., M., OR BLK., SCRYET OR AREA	TXD	
				Sec. 23, T2S,		
14. PERMIT NO.	15. BLEVATIONS (Show		eta.)	12. COUNTY OR PARISH 18.		
43-013-30619	5268' (Ung	raded GL)		Duchesne	Utah	
16. Check A	appropriate Box To In	dicate Nature	of Notice, Report, or	Other Data		
NOTICE OF INTE	: סד אסנדא:	-	aCBas	QUENT REPORT OF:		
TIET WATER SHUT-OFF	PULL OR ALTER CASING	\neg	WATER SHUT-OFF	REPAIRING WELL		
FRACTURE TREAT	MULTIPLE COMPLETE		PRACTURE TREATMENT	ALTERING CASING		
SHOCT OF ACIDIZE	ABANDON*		SHOUTING OR ACIDIZING	*THE MINOUNAGA		
REPAIR WELL	CHANGE PLANS		(Other)		_	
(Other) Recomplete	<u> </u>			its of multiple completion on Wonderlan Report and Log form.)	. 611	
· ·	ts approval to a the a prop osed pe			satch.		
			•			
••						
	en e					
	en e					
18. I hereby certify that the lovegoing	12 true and correct					
18. I hereby certify that the foregoing	/ /	LE Senior I	Orilling Enginee	er DATE Sept. 2	3, 1982	
X15 Rich	lacks	·LE Senior I	rilling Enginee	er DATE Sept. 2	3, 1982	

PROPOSED PERFORATIONS BARANGER #1-23B2

Depth			<u>Feet</u>
9,795-816			21
9,836-844			8
9,882-887			5
9,890-898			8
9,900-913	·,		13
9,962-974			12
9,978-982			4
9,988-992			4
10,052-060			8
10,064-071			7
10,172-180			8
10,183-187			4
10,200-204			4
10,252-256			4
10,270-274			4
10,358-362			4
10,374-380			6
10,424-432			8
10,434-440			6
10,443-448			5
10,462-470			8
10,472-486		٠	14
10,489-498			9
10,501-505			4
10,513-518			5
10,522-526			4
10,634-646			12
10,686-692		1	6
10,698-703			5
10,706-713			7
10,739-749			10
10,756-760			4
10,774-783			9

	<u>Feet</u>	
10,794-798	4	
10,801-810	9	
10,824-834	10	
11,094-102	`. 8	
11,156-163	. 7	
11,188-200	12	
11,310-316	6	
11,373-382	9	
11,428-432	4	
11,540-548	8	
11,740-744	4	
11,918-926	8	
		ı

j

SOMETEXPLORATION

October 12, 1982

RE: Sonat-Strand-Baranger 1-23 B2 Sec. 23, T2S, R2W Duchesne Co., Utah

State of Utah
Dept. of Natural Resources
Division of Oil, Gas & Mining
1588 West North Temple
Salt Lake City, Utah 84116

Attn: Mr. Jack Feight

Sir:

As you suggested in our conversation this date, this is written notice that Sonat has completed the subject well and is now installing production facilities with the intention of beginning production approximately November 25, 1982.

Please send a copy of your form OCG-5 "Monthly Oil & Gas Conservation Levy Report".

If you require any further information, please call me at 713/940-4027.

Very truly yours,

SONAT EXPLORATION COMPANY

M. J. Simon

Production Superintendent

MJS/smd

SMISSA WINNS

S@MATEXPLORATION

00T 10 1982

DIVISION OF OIL, GAS & MINING

October 12, 1982

Re: Well Status Report
Sonat-Strand-Baranger #1-23B2
Section 23, T2S, R2W
Duchesne County, Utah

State of Utah Department of Natural Resources Division of Oil, Gas, and Mining 1588 West North Temple Salt Lake City, Utah 84116

Gentlemen:

9/18/82 thru 9/21/82

RIH to 12,900'. Swabbed from 0 - 10,500'. Tag fluid at 10,500'. SI well. Suspended operations.

9/30/82 thru 10/8/82

Bled to 0 in 30 min. (dry gas). Filled tbg. with 69 bb1 MgCl water. Circulated FW from heat string. Replaced w/MgCl water. RU WL. Moved in rig. RU McCullough, ran temp. survey and gamma ray log from 9000-12,990'. RU workover unit. ND X-mas tree. NU & tested BOPs. OK. POOH w/2-3/8" heat string and 2-7/8" production string. RIH with gauge ring to TOL @ 9422'. WIH w/3-1/8" perforating gun and perforated as follows: 1st run - 11,918-26'; 11,740-44'; 11,540-48'; 11,428-32'. 2nd run - 11,373-82'; 11,310-316'; 11,188-200'; 11,156-163'. Perforated at 11,094-102'; 10,824-834'; 10,801-810; 10,794-798; 10,774-783; 10,756-60; 10,739-49; 10,732-736'; 10,706-713'; 10,698-703'; 10,686-92'; 10,522-26'; 10,513-18'; 10,634-46'; 10,501-505'; 10,489-98'; 10,472-86'; 10,462-70'; 10,443-48'; 10,334-40'; 10,424-32'; 10,374-80'; 10,358-62'; 10,270-74'; 10,252-56'; 10,200-204'; 10,183-87'; 10,172-180'; 10,064-71'. Perf @ 10,052-60'; 9988-92'; 9978-82'; 9962-74'; 9900-13'; 9890-98'; 9882-87'; 9836-44'; 9795-9816'. Final pressure = 3000 psi. WIH w/Otis "WB" packer with pump out plug and set at 9370'. Bled pressure off well. WIH with 2-7/8" tbg. replacing seal rings. Stung into pkr. Finished running 2-3/8" heatstring. Tested annulus to 1500 psi. ND BOP. NU tree. Tested to 5M psi. RU hot oil truck on heatstring and circ. hot water. Pump out plug in pkr. with 3100 psi. Opened well to pit.

Flowed: Water 75 bbl
Oil 10 bbl
Mud 10 bbl
Water 12 bbl
Oil 20 bbl

Well Status Report October 12, 1982 Page Two

SI well. Built to 1200 psi in 30 minutes. RD and released rig at 1600 hr. 10/7/82. FINAL REPORT: Hooking up production equipment.

D. E. Richards

Senior Drilling Engineer

713/940-4014

SUBMIT IN DUPLICATE*

5. LEASE DESIGNATION AND SERIAL NO

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

(See other instructions on reverse side)

									FE	Œ		
WELL CO	MPLE	TION	OR RECO	MPLET	ION	REPORT	A۱	ND LOG*	6. IF	INDIAN, A	LLOTTEE OR TRIBE NA	
1a. TYPE OF WE		OIL.								T ACREEV	ENT NAME	
b. TYPE OF COM	APLETION				ORY L	Other			_ ' ' ' ' '	I AGRES	CAI NAME	
MELL X	OVER _	EN	BACK	DIF	sva. 🔲	Other			S. FAR	M OR LEA	SE NAME	
2. NAME OF OPERA	ror										trand-Barange	
Sonat Exp	lorati	on Com	pany						9. WE			
				77051 1	E12				1	-23B2	OOL, OR WILDCAT	
P. O. BOX 4. LOCATION OF WE	LL (Repor	HOUSE t location	On, IX /	accordance	e with ar	y State regu	iremer	rts)*		ldcat	oon, on willder	
At surface 11	23' FN	L & 15	5 7' FEL c						11. 85		I., OR BLOCK AND SURVI	
At top prod. in	terval repo	orted below	v									
At total depth	Strai	ght Ho	le						Se	c. 23	, T2S, R2W	
					RMIT NO			ISSUED		UNTY OR RISH	13. STATE	
5. DATE SPUDDED	' 16 DAT	E T D REA	CHED 17 DAM	1	-013-3			1/13/81	Du	chesne		
5/23/82 0. TOTAL DEPTH, MD			į.			o prod.)	- 50	VATIONS (DF. RK		(c.) • 15	5269 5	
). TOTAL DEPTH, MD	4 TVD	21. PLUG.	BACK T.D., MD &	TVD 22	HOW M	TIPLE COMPL		# 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B V Rotan	X TOOLS	CABLE TOOLS	
12,995 MD	77/17/9) 0	12,99	5 'MD		How M Sing	;le			XX			
r. PRODUCTING THIE	KYALIS), U	r This Co	MPLETION-TOP	, воттом,	NAME ()	AD AND TVD		form on		UJ	25. WAS DIRECTIONAL SURVEY MADE	
Perforati	one a	0795_1	2 9/5				-,	DEC 30	1982		No	
3. TIPE ELECTRIC	AND OTHER	LOGS RU	2,543							1 27.	WAS WELL CORED	
DIL/OR/ED	c/soni	C.						DIVISION	V NE		No	
			CASI	ING RECO	RD (Rep	ort all string	a sed	L SAME	AMAIINIO			
CASING SIZE	WEIGF	IT, LB./FT.	DEPTH SE			LE SIZE	1	CEMENTI	NG RECORD	ļ	AMOUNT PULLED	
13-3/8"			245	1	17-	1/2"	38	385 sx				
10-3/4"_		51#	2970		1	1/4"	_}	+5 sx				
7-5/8"	39#	<u>& 33.7</u>	# 9746	, '	9-	1/2"	45	50 sx				
· · · · · · · · · · · · · · · · · · ·		7.1	NER RECORD			 	<u> </u>	20	TUDING	n H C C D D		
SIZE	TOP (MI		OTTOM (MD)	SACKS CE	MENT*	SCREEN (M	D)	30.	TUBING		DIGGER SEE (MD)	
511	942		12,995'	l 				2-7/8"	9,370		9,370 1	
			12,550	Uncem	enred	Liner			7,570	<u>, </u>	7,570	
. PERFORATION REC	CORD (Inter	rval, size	and number)		·····	32.	AC	ID, SHOT, FRA	CTURE, CE	MENT SQ	UEEZE, ETC.	
						DEPTH INT	PERVA	L (MD)	AMOUNT ANI	KIND OF	MATERIAL USED	
See Attacl	hed Li	st										
												
,•			 	····	PROF	UCTION			 			
TE FIRST PRODUCT	ION	PRODUCT	ION METHOD (F	lowing, ga			and t	ype of pump)	1 4		US (Producing or	
11/26/82		l	wing							shut-in)	Producing	
TE OF TEST	HOURS T	ESTED	CHOKE SIZE	PROD'N		OIL-BBL.		GAS-MCF.	WATER-	-BBL.	GAS-OIL RATIO	
11/27/82	24		17/64		->	240		250	12		1042	
OW. TUBING PRESS.	CASING P	RESSURE	CALCULATED 24-HOUR RATE	OIL-B		GAS-			R-BBL.	OIL	GRAVITY-API (CORR.)	
650 DISPOSITION OF G.	0	and for t			240		<u> 250</u>	. 1			34	
		seca jor ju	i, vented, etc.)						1	TNESSED		
Used for	ruel	· · · · · · · · · · · · · · · · · · ·								11 Har		
arrivel												
. I hereby certify	that the f	oregoing a	ind attached in	formation	is compl	ete and come	act oc	determined fra	m all anati	blo mana		
	\	71			·e combi	CTC WHE COLLS	H3	gerermined 1101	m an avana	nte tecord	a	

Senior Drilling Engineer

Date December 20, 1982

NSTRUCTIONS

submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.
If not flich prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types ciectric, etc.), for and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attach cuts General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Redecal agency or a State agency, Any necessary special instructions concerning the use of this form and the number of copies to be or both, pursuant to applicable Pederal and/or State laws and regulations.

Hen 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local should be listed on this form, see item 35.

or Pederal office for specific instructions.

Hem 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. Hems 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Hem 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Hem 33: Submit a separate completion report on this form for each interval to be separately produced. (See Instruction for items 22 and 24 above.)

	۵.	TRUE VORT. DEPTH			
OBOLOGIC MARKAGES	TOP	EAS. DEPTH	5,286	10,024	
38. GEOLO(2 G C C	Green River	Wasatch	
RHOW ALL, MICHIANT ZONES OF CONDENT AND CONTENTS THEREOF; CORED INFRVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CHAHION USED, TIMB TOOL OFEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES	DESCRIPTION, CONTENTS, ETC.				
TIME TOOL OPEN, FLOWING	воттом				
L TESTED, CURIION USED,	TOF				
DEPTH INTERVAL	FORMATION				

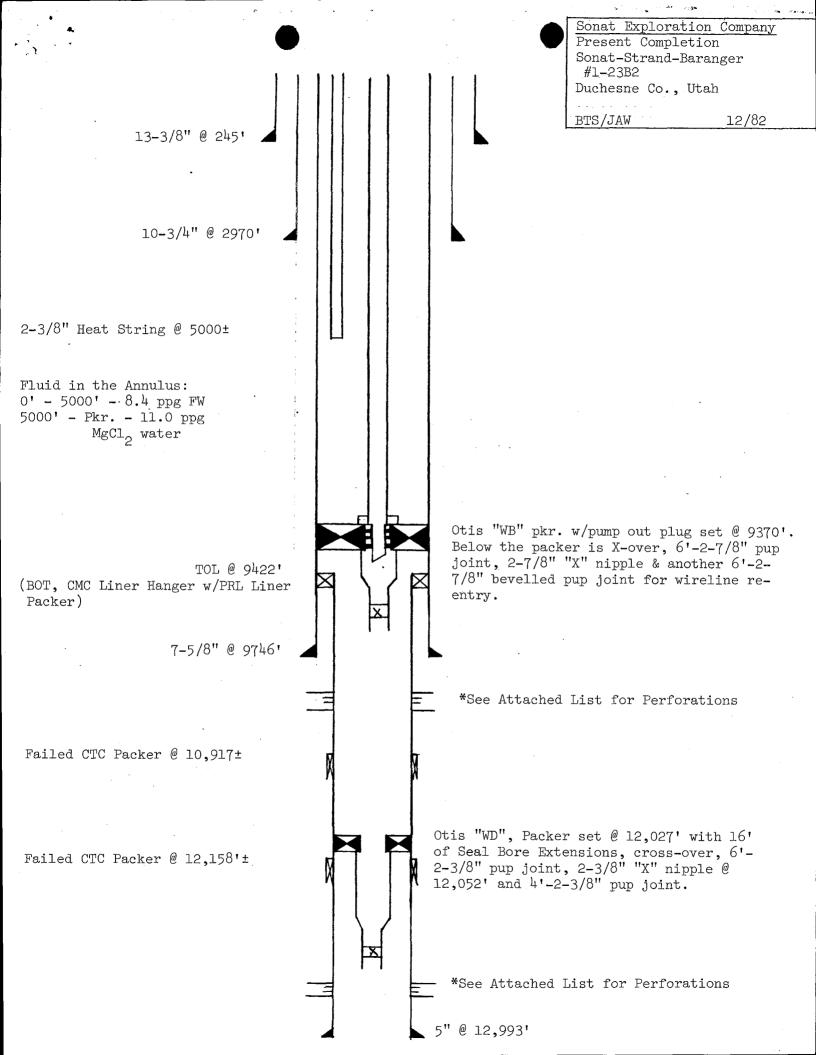
Reference: DIL-SFL Dated 7/25/82 3 shots/foot, 120° Phasing, at each depth

2 0.1000, 20	, === = = :::	
Interval	Depth Interval	Ft. of Perfs
1	12,942-945	3
2	929-935	6
3	911-916	5
4	12,893-899	6
5	878-882	4
6	867-870	3
7	849-854	5
8	813-828	15
9	12,794-798	4
10	762-774	12
11	746-752	6
12	722-728	6
13	704-708	4
14	12,691-695	4
15	686-689	3
16	677-684	7
17	666-672	6
18	645-648	3
19	639-642	3
20	624-632	8
21	12,590-596	6
22	<i>5</i> 70- <i>5</i> 7 <i>5</i>	5
23	560-567	7
24	548-558	10
25	528-533	5
26	513-517	4
27	501-507	6
28	12,489-498	9
29	472-479	7
30	456-466	10
31	437-442	5
32	426-430	4
33	416-421	5

Interval	Depth Interval	Ft. of Perfs
34	401-410	9
35	12,385-396	11
36	372-378	6
37	347-351	4
38	330-334	4
39	310-314	4
40	12,294-300	6
41	269-281	12
42	261-265	4
43	252-259	7
44	12,814-824'	10
45	12,095-104'	9
46	12,363-365	2
47	11,918-926'	8
48	11,740-744'	4
49	11,540-548'	8
50	11,428-432'	4
51	11,373-382'	9
52	310-316'	6
53	11,188-200	12
54	156-163	7
55	11,094-102'	8
56	10,824-834'	10
57	801-810'	9
58	10,794-798	4
59	774-783	9
60	756-760'	4
61	739-749	10
62	732-736'	4
63	706-713'	7
64	10,698-703	5
65	686-692'	6
66	634-646'	12
67	10,522-526'	4
68	513-518'	5

Interval	Depth Interval	Ft. of Perfs
69	10,501-505	4
70	10,489-498'	9
71	472-486'	14
72	462-470'	8
73	443-448'	5
74	434-440'	6
75	424-432'	8
76	10,374-380'	6
77	358-362'	4
78	10,270-274	4
79	252-256'	4
80	200-204'	4
81	10,183-187'	4
82	172-180'	8
83	10,064-071	7
84	052-060'	8
85	9,988-992'	4
86	978-982'	4
87	9,962-974'	12
88	9,990-913	13
89	9,890-898'	8
90	9,882-887'	5
91	9,836-8441	8
92	9,795-816'	21

Reference: DIL/SFL dated 7/25/82 Shot Density: 4 JSPF, 90° Phasing



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Contractor Transcontine		Box 1513; Houston, TX 77251-
•		2W County Duchesne
ater Sands		
<u>Depth</u>	<u>Volume</u>	<u>Quality</u>
From To	Flow Rate or Head	Fresh or Salty
500' - 550'	2 bbl/hr	Fresh
700' - 750'	2 bbl/hr	Fresh
•	:	
•		
•		
(Conti	nue of reverse side if nece	essary)
ormation Tops		

- NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
 - (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

Sonat Exploration Company Post Office Box 15 Houston TX 77251 1513 713 940 4000

SENAT EXPLORATION

December 27, 1982

Re: Sonat-Strand-Baranger #1-23B2

Section 23, T2S, R2W

Duchesne County

State of Utah Department of Natural Resources Division of Oil, Gas & Mining 1588 West North Temple Salt Lake City, Utah 84116

Gentlemen:

Enclosed are the logs which are to be filed with our Completion Report, filed December 27, 1982.

If you need additional information, please call me at 713/940-4014.

Sincerely,

D. E. Richards

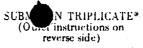
Senior Drilling Engineer

JAW/jlp Enclosures

JAN 0 4 1993

DIVISION OF OIL GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES



DEPA	ARTMENT OF NATU					
DIV	VISION OF OIL, GA	AS, AND MI	NING		5. LEASE DESIGNATION	AND SERIAL NO.
		,			FEE	
SUNDRY N (Do not use this form for p	6. IF INDIAN, ALLOTTS	SMAN SEIST SO ES				
•		10t 10t p	TOYOGAIA, 7		7. UNIT AGREEMENT N	AMB
WELL OTHI	E1					
NAME OF OPERATOR	_				8. FARM OR LEASE NA	
Sonat Exploration (Company		· · · · · · · · · · · · · · · · · · ·		Sonat-Strand-	-Baranger
					9. WELL NO.	•
P O Box 1513, House			State and an artist of the state of the stat		1-23B2	N 1911 BALE
LOCATION OF WELL (Report locate See also space 17 below.) At surface	non creatily and in accord	iance with any	atate requirements.	1	10. FIELD AND POOL, OR WILDCAT	
1123'FNL & 1557'FE	I of Section 23	Этост	OTJ	-	Wildcat	BLE. AND
1123 THE & 1337 TE	n or section 23	0, 125, K	2 W.		AURYSY OR LEE	4
•				1	Sec. 23, T2S	R 2W
i. PEBMIT NO.	15. ELEVATIONS (S	how whether Dr	, RT, OR, etc.)		12. COUNTY OR PARISE	
43-013-30619	5268'((GR)			Duchesne	Utah
. Ch. J.		`	L. AND D	. ^	L D	
Слеск	: Appropriate Box To	o indicate N	lature of Notice, Kep	ort, or U	ther Data	. ••
NOTICE OF I	: OT KOITKETK			SUBSEQUE	NT REPORT OF:	
TIST WATER SHUT-OFF	PULL OR ALTER CASI	NG	WATER SHUT-OFF		REPAIRING	WELL
FRACTURE TREAT	MULTIPLE COMPLETE		FRACTURE TREATM	ENT	ALTERING C	ASING
SHOOT OR ACIDIZE X	ABANDON®		SHOUTING OR ACID	IZING	ABANDONME	NT*
REPAIR WELL	CHANGE PLANS	<u> </u>	(Other)	ort results o	of multiple completion	on Weil
(Other)	D OPERATIONS (Clearly sta	ate all pertinen subsurface locat	(NOTE: Repo	or Recomple	of multiple completion tion Report and Log for neluding estimated dai depths for all marker	rm.) te of starting any
(Other) T. DESCRIBE PROPOSED OR COMPLETED proposed work. If well is dis	D OPERATIONS (Clearly starectionally drilled, give s	subsurface locat	(Note: Rep Completion of t details, and give pertin ions and measured and t	or Recomple- lent dates, l rue vertical	tion Report and Log for notuding estimated dail depths for all marker	rm.) te of starting any
(Other) 7. DESCRIBE PROPOSED OR COMPLETED proposed work. If well is discrete to this work)* Sonat requests	D OPERATIONS (Clearly starectionally drilled, give s	subsurface locat	(Note: Rep Completion of t details, and give pertin ions and measured and t	or Recomple- lent dates, l rue vertical	tion Report and Log for notuding estimated dail depths for all marker	rm.) te of starting any
(Other) 7. DESCRIBE PROPOSED OR COMPLETED Proposed work. If well is discrete to this work.) * Sonat requests	D OPERATIONS (Clearly starectionally drilled, give s	subsurface locat	(Note: Rep Completion of t details, and give pertin ions and measured and t	ubject	tion Report and Log for notuding estimated dail depths for all marker	rm.) te of starting any
(Other) 7. DESCRIBE PROPOSED OR COMPLETED proposed work. If well is discrete to this work.)* Sonat requests	D OPERATIONS (Clearly starectionally drilled, give s	d perfora	(Note: Report of the state of t	ubject	tion Report and Log for neluding estimated dai depths for all marker well. See	rm.) te of starting any
(Other) 7. DESCRIBE PROPOSED OR COMPLETED proposed work. If well is discrete to this work)* Sonat requests	approval to ad	BY THE S	(Note: Report of the state of t	ubject	sion Report and Log for neluding estimated daidepths for all marker well. See	rm.) te of starting any
Sonat requests attached list.	APPROVED OF UTAH OIL, GAS, DATE:	BY THE S	(Note: Report of the state of t	ubject	sion Report and Log for neluding estimated daidepths for all marker well. See	rm.) te of starting any and zones perti-
DESCRIBE PROPOSED OR COMPLETED proposed work. If well is direct to this work.) Sonat requests attached list. 8. I hereby certify that the force signed Make Fan.	APPROVED OF UTAH OIL, GAS, DATE: BY:	BY THE S	NOTE: Report of the state of th	ubject	27 1983 SION OF	rm.) te of starting any and zones perti-
Sonat requests attached list. 8. I hereby certify that the forest that the fo	APPROVED OF UTAH OIL, GAS, DATE: BY:	BY THE S	NOTE: Report of the state of th	ubject	27 1983 SION OF	rm.) te of starting any and zones perti-

PROPOSED PERFORATIONS Baranger #1-23B2

INTERVAL	FOOTAGE
10,016 - 10,024'	8
10,584 - 10,586'	2
10,596 - 10,604'	8
10,876 - 10,880'	4
10,882 - 10,886'	4
10,910 - 10,914	4
10,958 - 10,962	4
10,969 - 10,972	3
10,996 - 11,000'	4
11,016 - 11,026'	10
11,108 - 11,111'	3
11,138 - 11,146'	8
11,562 - 11,574'	12
11,711 - 11,720'	9
11,732 - 11,734'	2
11,765 - 11,770'	5
11,793 - 11,798'	5
•	
TOTAL	. 95 '

Gun: 2-1/8" Hollow Carrier, 2 JSPF JRC 6.5g charge.

SONAT EXPLORATION COMPANY Present Completion Sonat-Strand-Baranger #1-23B2 Duchense Co., Utah 13-3/8" @ 245 BTS/JAW 04/83 10-3/4" @ 2970' 2-3/8" Heat String @ 5000'± Fluid in the Annulus: 0'-5000' - 8.4 ppg FW 5000'-pkr - 11.0 ppg MgCl₂ water Otis "WB" pkr w/pump-out plug set @ 9370'. Below the packer is X-over, 6' - 2-7/8" pup joint, 2-7/8" "X" nipple & another 6' -TOL @ 9422' 2-7/8" bevelled pup joint for wireline reentry. (BOT, CMC Liner Hanger w/PRL Liner Packer) 7-5/8" @ 9746' Perforations: 9795-11,926' (See Attached Proposed Perforations) Failed CTC Packer @ 10,917'± Otis "WD" Packer set @ 12,027' with 16' of Seal Bore Extensions, cross-over, 6' - 2-3/8" pup joint, 2-3/8" "X" nipple @ 12,052' and 4' - 2-3/8" pup joint. Failed CTC Packer @ 12,158'± Perforations: 12,252-12,945'

5" @ 12,993'

S©NAT EXPLORATION

July 21, 1983

Re: Sonat-Strand-Baranger #1-23B2 Section 23, T2S, R2W Duchesne County, Utah

State of Utah Natural Resources & Energy Oil, Gas & Mining 4241 State Office Bldg. Salt Lake City, Utah 84114

Gentlemen:

Enclosed, in triplicate, is Form OGC-1b, "Sundry Notices and Reports on Wells," along with its attachments concerning the subject well.

If you require additional information, please call me at 713/940-4026.

Sincerely,

M. J. Lammers

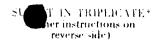
Senior Drilling Engineer

BTS/JAW Enclosures

JUL 27 1983

DIVISION OF TAS 3 MINING

DEPARTMENT OF NATURAL RESOURCES



_		[5. LEASE DESIGNATION AND SERIAL NO				
	SUNDRY (Do not use this form form the "Use")	NOTICES AND RED PROPOSALS to delile of to de APPLICATION FOR PERMIT	PORTS	ON WELLS back to a different reservo proposals.)	1	. IF INDIAN, ALLOTTE	SOR TRIBE NAME
1.	OIL X UAS	OTHER	 			. UNIT AGREEMENT N	AMB
2.	NAME OF OPERATOR				- <u>8</u>	. FARM OR LEASE NA	M B
	Sonat Exploration	Company			50	nat-Strand-Ba	aranger
3.	ADDRESS OF OPSSATOR	. mr 77051 157			9	. WELL NO.	
4.	P O Box 1513, House	ston, IX //251-151	3 200 = 125 0 0	9		1-23B2	
	See also space 17 below.) At surface	The street of th	nce with any	State requirements.	1	O. PIELD AND POOL, O	R WILDCAT
	1123'FNL & 1557'F	EL of Section 23,	r2s, R2W	,	1	Wildcat 1. SEC., T., E., M., OR I SURVEY OR AREA	BLK. AND
_					s	ection 23, T2	2S, R2W
14.	PERMIT NO.	15. BLEVATIONS (She		f, RT, GR, etc.)		2. COUNTY OR PARISH	
	43-013-30619	5268'	(GR)			Duchesne	Utah
16.	Che	ck Appropriate Box To	Indicate N	lature of Notice, Repo	rt, or Othe	er Data	
		F INTENTION TO:				REPORT OF:	
	TEST WATER SHUT-OFF	PULL OR ALTER CASING		WATER SHUT-OFF		REPAIRING W	rett
	FRACTURE TREAT	MULTIPLE COMPLETE		FRACTURE TREATME	47	ALTERING CA	PUBLING
	SHOOT OR ACIDIZE	ABANDON®		SHOUTING OR ACIDIZ	ING X	ABANDONMEN	T*
	(Other)	CHANGE PLANS	-	(Other)	t results of	nultiple completion	
17	DESCRIBE PROPOSED OR COMPLE Proposed work. If well is		<u> </u>	('ompletion or	Recompletion	Report and Log fue	777)
						=51	
18.	OF	OVED BY THE STAUTAH DIVISION OF GAS, AND MANUAL ORDER IS True and correct.		AUG BIV. OF OI	2 6 198 3		
	HIGNED Mike X	comment 1	ITLE Seni	or Drilling Engi	neer	DATE August	23, 1983
	(This space for Federal or Sta APPROVED BY	т	ITLE			DATE	

Added Perforations Sonat-Strand-Baranger #1-23B2

INTERVAL	FOOTAGE
10,016 - 10,024'	8
10,584 - 10,586'	2
10,596 - 10,604'	8
10,876 - 10,880'	4
10,882 - 10,886'	4
10,910 - 10,914'	4
10,958 - 10,962'	4
10,969 - 10,972'	3
10,996 - 11,000'	4
11,016 - 11,026'	10
11,108 - 11,111'	3
11,138 - 11,146'	8
11,562 - 11,574'	12
11,711 - 11,720'	9
11,732 - 11,734'	2
11,765 - 11,770'	5
11,793 - 11,798'	5
\mathtt{TOTAL}	95 '

Gun: 2-1/8" Hollow Carrier, 2 JSPF JRC 6.5g charge.

SONAT EXPLORATION COMPANY

Present Completion Sonat-Strand-Baranger #1-23B2

Duchesne Co., Utah

13-3/8" @ 245'

10-3/4" @ 2970'

Fluid in the Annulus 0'-5000' - 8.4 ppg FW 5000' - Pkr - 11.0 ppg CaCl₂ water

TOL @ 9422'
(BOT, CMC Liner Hanger w/PRL Liner Packer)

7-5/8" @ 9746'

Failed CTC Packer @ 10,917'±

Failed CTC Packer @ 12,158'±

National Hydraulic pump above the packer inside the tubing. (pumped in after workover) Otis "WB" pkr w/pump out plug set @ 9370'. Below the packer is X-over, 6' - 2-7/8" pup joint, 2-7/8" "X" nipple & another 6' - 2-7/8" bevelled pup joint for wireline reentry.

Perforations: 9795-11,926'(Gross)
Additional Perfs @ 10,016'-11,798'(Gross)

Otis "WD" Packer set @ 12,027' with 16' of Seal Bore Extensions, cross-over, 6' - 2-3/8" pup joint, 2-3/8" "X" nipple @ 12,052' and 4' - 2-3/8" pup joint.

Perforations: 12,252-12,945' (Gross)

5" @ 12,993'

Sonat Exploratio mpany Post Office Box 1518 Houston TX 77251 1513 713 940 4000

S@NAT EXPLORATION

RECEIVED

OCT 2 2 1985

October 17, 1985

DIVISION OF OM

State of Utah Natural Resources and Energy Oil, Gas & Mining 4241 State Office Bldg. Salt Lake City, UT. 84114

RE: Sonat-Strand-Baranger, #1-23B2 Section 23, T2S, R2W Duchesne County, Utah

Gentlemen:

Enclosed, in triplicate, is Form OGC-1b, "Sundry Notices and Reports on Wells" concerning the subject well.

If additional information is necessary, please call me at 713/840-4976.

Sincerely,

D. T. myherson

D. T. McPherson Supervisor of Production Engineering

JAW:by

Enclosures



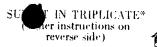
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STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES 5. LEASE DESIGNATION AND BERIAL NO. DIVISION OF OIL, GAS, AND MINING 6. IF INDIAN, ALLOTTEE OR TRIBE NAME SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir

Use "APPLICATION FOR PERMIT—" for such proposals.) 7. UNIT AGREEMENT NAME WELL X GAS Well OTHER 2. NAME OF OPERATOR S. PARM OR LEASE NAME OCT 2 2 1985 Sonat Exploration Company Sonat-Strand-Baranger S. ADDRESS OF OPERATOR 9. WELL NO. 77251-1513 DIVISION OF CH P.O. Box 1513, Houston, TX. 1-23 B2 LOCATION OF WELL (Report location clearly and in accordance with any State repulse with the See also space 17 below.)
At surface 10. FIELD AND POOL, OR WILDCAT Wildcat 1123' FNL & 1557' FEL of Section 23, T2S, R2W 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 23, T2S, R2W 14. PERMIT NO. 12. COUNTY OR PARISH 18. STATE 15. BLEVATIONS (Show whether DF, RT, GR, etc.) 43-013-30619 5268' (GR) Duchesne Utah 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: TEST WATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF REPAIRING WELL FRACTURE TREAT MULTIPLE COMPLETE FRACTURE TREATMENT ALTERING CASING SHOOT OR ACIDIZE ABANDON* ABANDONMENT* SHOOTING OR ACIDIZING (Other) replace pump REPAIR WELL CHANGE PLANS (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) (Other) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)* Completed Operations: Objective: To replace pump. POH with 2-7/8" tbg. TIH with J-Latch seal assembly, pump cavity, 284 jnts. and one 4" pup jnt. of 2-7/8", 6.5 psi, N80, 8rd, ABC mod., EUE. Broached tbg. during TIH-OK. Latched on to pkr - left 18,000# tension on tbg. TIH with 1 jnt 2-3/8" hydrill tbg. NU BOP-flanged up tree. Pumped 20 bbl produced wtr down tbg. Dropped SV and pumped to bottom. Press tidal SV to 1500 psi for 10 minutes-OK. Circulated produced water down tbg, up annulus overnight. Began pumping hydraulic pump down tbg at 7 a.m. RD pulling unit 8/8/85. BOPD Results: MCFD **BWPD** FTP 8/10/85 - 22 52 2800 30 8/11/85 - 18 40 30 2800 8/12/85 - 17 30 31 2800 Received V/A and to follow up with a SSN to replace the pump from Mr. Norm Stout Note: on August 1, 1985.

8. I hereby certify that the foregoing is true and correct SIGNED D. T. M. Phenson	TITLE .	Supv. of Production E	ngineering	10/17/85
(This space for Federal or State office use)				
APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	TITLE .		DATE	

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL GAS AND MINING



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	DIVISION	OF OIL, GAS, AND M	INING	5. LEASE DESIGNATION AND SERIAL NO.
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	SUNDRY NOTICES (Do not use this form for proposals to use "APPLICATION")	AND REPORTS of drill or to deepen or plug FOR PERMIT—" for such 1	ON WELLS back to a different reservoir. proposals.)	6. IF INDIAN, ALLOTTER OR TRIBE NAME
1.	OIL X GAS OTHER			7. UNIT AGREEMENT NAME
2.	Sonat Exploration Company	Λ++n+ 1 Λ Naved		8. FARM OR LEASE NAME
3.	ADDRESS OF OPERATOR	, Actin: J.A. Ward		Sonat-Strand-Baranger
	P.O. Box 1513, Houston, T	X 77251-1513		9. WELL NO.
4.	LOCATION OF WELL (Report location clearly See also space 17 below.)			1-23B2 10. FIELD AND FOOL, OR WILDCAT
	1123' FNL & 1557' FEL of	Section 23 T2S	R2W	Wildcat
			IV C PV	11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
				Sec. 23, T2S, R2W
14.	PERMIT NO. 15.	BLEVATIONS (Show whether DE		12. COUNTY OR PARISH 18. STATE
_	43-013-30619		5268'	Duchesne Utah
16.	Check Appropr	nate Box To Indicate N	lature of Notice, Report, or	Other Data
	NOTICE OF INTENTION T	ю:	AUBS	EQUENT EXPORT OF:
	TEST WATER SHUT-OFF PULL O	R ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
		LE COMPLETE	FRACTURE TREATMENT	ALTERING CASING
	SHOOT OR ACIDIZE ABANDO		SHOUTING OR ACIDIZING	ABANDON MENT*
	(Other)	PLANS	(Other)	its of multiple completion on Well
	See attachment.			
	I hereby certify that the foregoing is true a	and correct	pv. of Prod. Eng.	DATE 11/6/86
		TITLE Su		
	(This space for Federal or State office use)			ED BY THE STATE
	APPROVED BY	TITLE		AH DIVISION OF
			DATE: _//-	AS, AND MINING
			BV.	
		*See Instructions	on Reverse Side	and the second s

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

Data on Present Zone

Wasatch Zone: Present perforations at 9795-11,926' OA and 12252-12,945' OA

Average daily production for first 21 producing days in October 1986.

Shut-In: 7/25/86 - Hydraulic pump stopped pumping. Normal production 12 BOPD, 10 BWPD.

Reason for abandonment: The well is uneconomical to operate.

Proposed P&A Procedure

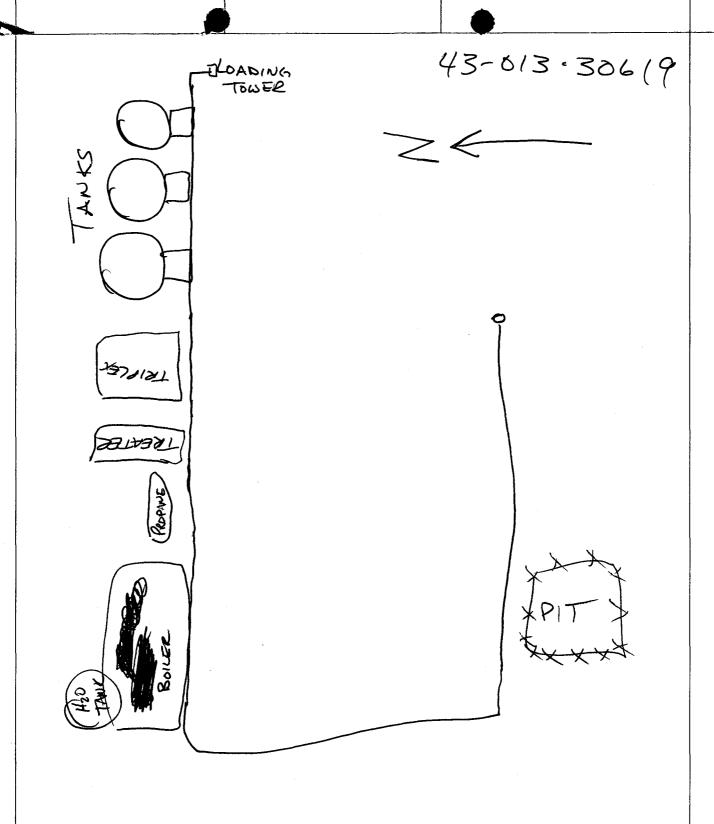
- 1. RU rig.
- 2. Set BPV's. ND tree. NU and test BOP's. Remove BPV's.
- 3. RU on short string and POOH.
- 4. RU on long string. Establish injection rate of 3-4 BPM at maximum 4500 psi down tbg. Spot 150 sx C1 "G" cement to EOT. Sq. 100 sx below pkr. at 9370'. Leave 50 sx cement on top of pkr. POOH with tbg.
- 5. ND BOP's and tubing spool. Weld onto 7-5/8" csg. and NU BOP's on 10-3/4" casing head. Cut 7-5/8" csg. at 3100' and work free.
- 6. Spot 150 sx C1 "G" cement from 3100-2800'.
- 7. Spot 30 sx C1 "G" cement inside 10-3/4" csg from 60' to surface. Cut off 10-3/4" csg. 4' BGL. Weld 1/4" steel plate on 10-3/4" csg. Install dry hole marker with well name, number, and location of well.
- 8. Will remove surface production equipment and restore location.

	Cepth Paterance; X8 to THF; X8 to MGL Annulus Fluid: ppg Tree: 5000 psi psi WP Type of Pump: Unit Size: SPM: Stroke Length:		Bluebell FIELD Baranger LENSE #1/-2382 WELL Campleted:/ / / Warkover:/ / /
	Type of Orive:	B. B.	Size Weight Thread Callars Grade to Feet New/Used/Rerun Capting 10 3/4 csg. 51 to 2970
	PROPOSED MECHANICAL SKETCH		Remarks:TOC_I 5000'
	0+is"wB" PKr@ 9370'	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	De la
·			· TOL @ 9422'
		9 B	758" esg. 33.7 pof; To 9746 9795'-11926'0A W SACWASATELDZONE
	Otis"WO"PKr@12027'		12252-129450A=1 p=, Wasatch zone
	T.D.	12993	PSTD @

Depth Reference; KB to THF; KB to MGL	Blue Bell FIELD
Annulus Fluid: ppg Tree: Soops: Nat!psi WP	Baranger LEASE #1-2382 WELL
Tree: 5000 ps; NaTI psi WP	=/-2382 WELL
	. Campleted:/
Type of Pump:	Workover:/
Unit Size:	
SPM:	TUBING
Stroke Length:	3 1/8 " 6.5 # ABC 8rd EUE Size Weight Thread Collars
Type of Drive:	1 1 1 1
· 	N-80 to 9310 NEW Abne Grade Feet New/Used/Rerun Capting
	Grade Feet New/Used/Rerun Cadting
	153/11
- - .	103/4 039. 51 10 2970
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PRESENT	42.46
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MECHANICAL SKETCH	above Packer
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tis"WB"PKr@ 9370'	\mathbf{x}
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	9795-11936 OA W CPE Watsch Zon
	#
0415"WO" PKr@ 12027'	
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	7.
	*
	12252'-12945'0A-1 PF, Wastel Zone
	*
	PBTD @ 18 to 12,993'
	5" csq. 18 " to 12,993"
	793'
Prepared By: LRT Date: 9-3-86	

STATE OF UTAH DIVISION OF OIL, GAS AND MINING DRILLING AND WELL PLUGGING INSPECTION FORM

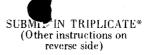
company: Sonat Exploration C	· 0	
WELLNAME: Barranger 1-2382	API#	43-013-30619
SECTION: 23 TWP: 25		
INSPECTOR: GARY GARNER		
REPRESENTATIVE: Bob Mother	PUSHER: L	<u> villie Williams</u>
OPERATIONS: phy + abandon.		
SPUD DATE:	DEPTH:	
DRILLING AND COMPLETIONS:		
APDWELL SIG	3N	SANITATION
BOPE BLOOIE	INE	H2S
VENTED/FLAREDRESERVE	PIT	FLARE PIT
BURN PIT HOUSEKEE	PING	•
PLUGGING AND ABANDONMENTS:		
PLUG TYPE 100 Sx Class G below Plan >		INTERVAL 9370'
		Bottom of court 9828
PLUGS TESTED: NO HOW		woc
MARKER:SURFACE	PLATE	
RECLAMATION:		
CONTOURRIP	REHAB	
LEGEND: (Y)-YES (P)-PROBLEM (U)-UNKNO	WN (BLANK)-	NOT APPICABLE
REMARKS:		
slips failed - start down to repair backed it off + left 3000' tabi	- stack the	e tubing in the hole, hele-plut 20 st
	5 ₁ TE	DATE 9/19/88



STATE OF UTAH DIVISION OF OIL, GAS AND MINING DRILLING AND WELL PLUGGING INSPECTION FORM

COMPANY: Sonat Exploration	
WELLNAME: Barranger 1-23BZ API# 4	3-013-30619
SECTION: 23 TWP: 25 RANGE:	Z.W
INSPECTOR: GARAGE TIME: 800	DATE: 9/20/88
REPRESENTATIVE: Bob Marlan PUSHER: L	Villie Williams
OPERATIONS: Set surface plug	
SPUD DATE:DEPTH:) PBTD - 12,993
DRILLING AND COMPLETIONS:	•
APDWELL SIGN	SANITATION
BOPE BLOOIE LINE	H2S
VENTED/FLAREDRESERVE PIT	FLARE PIT
BURN PITHOUSEKEEPING	
PLUGGING AND ABANDONMENTS:	
PLUG TYPE <u>cement Class G50x deum</u> 103/4 + 50 5x down 75/8	INTERVAL SWFACS.
PLUGS TESTED: NO HOW	WOC
MARKER: SURFACE Y PLATE	
RECLAMATION:	
CONTOURRIPREHAB	
LEGEND: (Y)-YES (P)-PROBLEM (U)-UNKNOWN (BLANK)-N	OT APPICABLE
REMARKS:	
operation went smoothly.	
APPROVED BY GARY GARNER HOW ON SITE	DATE 9/20/88

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OUL GAS AND MINING



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SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals. OIL GAS WELL OTHER P&A'd NAME OF OPERATOR Sonat Exploration Company, Attn: Julie Ward—OCT 20 1988 Sonat—Strand—Baranger		ON OF OIL, GAS, AND N		5. LEASE DESIGNATION AND BERIAL NO. FEE
WILL WALL OTHER PEA'd WALL OF OPERANCE RAME OF OPERANCE SONATE EXPLORATION COMPANY, Attn: Julie Ward OCT 20 1988 SONATE SEPLORATION COMPANY, Attn: Julie Ward OCT 20 1988 SONATE SEPLORATION OF THE PROPERTY OF THE PROPE	SUNDRY NOT	ICES AND REPORTS pals to drill or to deepen or plug action FOR PERMIT—" for such	back to a different reservoir.	6. IF INDIAN, ALLOTTEE OR TRIBE NAI
Sonat Exploration Company, Attn: Julie Ward and OCT 20 1988 Sonat Strand-Baranger PO. Box 1513, Houston, TX 77251-1513 OIVISION OF 1-23B2 10. FIEL NO. 1123' FNL & 1557' FEL of Section 23, T2S, R2W PREMITE NO. 43-013-30619 15. SLANATIONE (Show whether Dr. Nt(sn. No.) 5268' Check Appropriate Box To Indicate Nature of Notice, Report, or Other Oct Notice of invention to: TEET WATER SKUP-OFF POLIOS ALTER CASING MULTIPLE COMPLETE PRACTURE TRATEMENT ANABOUS ALTER CASING (Other) PRACTURE TRATEMENT ANABOUS ALTER CASING (Other) PRACTURE TRATEMENT ANABOUS ALTER CASING (Other) PRACTURE TRATEMENT ANABOUS ALTER COMPLETE SEC. 13 - T2S, R2W ANABOUS ALTER CASING (Other) PRACTURE TRATEMENT ANABOUS ALTER CASING ANABOUS ALTER CASING (Other) (Other) (Other) PRACTURE TRATEMENT ANABOUS ALTER CASING ANABOUS	WELL WELL OTHER	P&A'd	WESUVE	
P.O. Box 1513, Houston, TX 77251-1513 DIVISION OF WILL (Report location clearly and in accordance with any State reddirended). In File AND FOOL, or WillCart Tall 123' FNL & 1557' FEL of Section 23, T25, R2W PREMIT NO. 11. SEAVATIONE (Show whether DF, NT (a) VA). PREMIT NO. 12. COUNTY OR PARTIEL 13. FRATE BRUN-OFF ANABILITY OF ALTER AND FOOL OF ALTER 13. FRATE BRUN-OFF ANABOLY SHOWN WHETER PROPERTY AREA BRUN-OFF ANABOLY SHOWN WHETER PROPERTY AREA BRUN-OFF ANABOLY SHOWN WHETER PROPERTY PRACTURE TREATMEN ALFERING CASING ANABOLY SHOWN WHETER PROPERTY PRACTURE TREATMEN ARE REPORT OF THE SHOWN WHETER PROPERTY PRACTURE TREATMEN ARE REPORT OF THE SHOWN WHETER PROPERTY PRACTURE TREATMEN ARE REPORT OF THE SHOWN WHETER PROPERTY PRACTURE TREATMEN ARE REPORT OF THE SHOWN WHETER PROPERTY PRACTURE TREATMEN ARE REPORT OF THE SHOWN WHETER PROPERTY PRACTURE TREATMEN ARE REPORT OF THE SHOWN WHETER PROPERTY PRACTURE TREATMEN ARE REPORT OF THE SHOWN WHETER PROPERTY PRACTURE TREATMEN ARE REPORT OF THE SHOWN WHETER PROPERTY PRACTURE TREATMEN ARE REPORT OF THE SHOWN WHETER PROPERTY PRACTURE TREATMEN ARE REPORT OF THE SHOWN WHETER PROPERTY PRACTURE TREATMEN ARE REPORT OF THE SHOWN WHETER PROPERTY PRACTURE TREATMEN ARE REPORT OF THE SHOWN WHETER PROPERTY PRACTURE TREATMEN ARE REPORT OF THE SHOWN WHETER PROPERTY PRACTURE TREATMEN ARE REPORT OF THE SHOWN WHETER PROPERTY PRACTURE TREATMEN ARE REPORT OF THE SHOWN WHETER PROPERTY PRACTURE TREATMEN ARE REPORT OF THE SHOWN WHETER PROPERTY ARE REPORT OF THE SHOWN WHETER PRACTURE TREATMEN ARE REPORT OF THE SHOWN WH	Sonat Exploration Comp	any, Attn: Julie Wa		
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PREMITY NO. 1. SELEVATION (Show whether Dr. NT(M.)LA.) PREMITY NO. 43-013-30619 1. SELEVATION (Show whether Dr. NT(M.)LA.) Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data NOTICE OF INVESTION TO: SECRET WATER SHUT-OFF PRACTURE TREAT SHOOT OA ACTIEF COMPLETE REPAIR WELL CHANGE FLANS (Other) PRECIDE TREATMENT SHOOT OA ACTIEF COMPLETE REPAIR WELL CHANGE FLANS (Other) COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertined dates, include deep starting a proposed have. It would work!) Sec attachment. Thereby certify that the foregoing is requesare correct REPAIR OF THE SHUT-OFF REPAIRING CASING ALTERING CASING NOTICE OF INVESTIGATIONS (Clearly state all pertinent details, and give pertined dates included date of starting a proposed have. It will be directionally defiled. give subsurface bocations and measured and true vertical depths for all markers and zones per users of the work.) Thereby certify that the foregoing is requesare correct REQUILITY THAT THE T	See also space 17 below.)	early and in accordance with an	y State requirements, ax 19911411412	10. FIELD AND POOL, OR WILDCAT
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Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: TEST WATER SHUT-OFF PRACTURE TREAT MULTIPLE COMPLETE ABANDOS* SHOOTING OR ACTIBING ABANDOS* SHOOTING OR ACTIBING ABANDOS* SHOOTING OR ACTIBING OF INTENTION CASING (Other) DESCRIBE PROPERTIES OF COMPLETE CHANGE FLANS THE COLOR WORK, If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones between the work, I well is directionally drilled. give subsurface locations and measured and true vertical depths for all markers and zones between the work, I well is directionally drilled. Give subsurface locations and measured and true vertical depths for all markers and zones between the work, I well is directionally drilled. Give subsurface locations and measured and true vertical depths for all markers and zones between the work, I well is directionally drilled. Give subsurface locations and measured and true vertical depths for all markers and zones between the work, I well is directionally drilled. Give subsurface locations and measured and true vertical depths for all markers and zones between the work, I well is directionally drilled. Give subsurface locations and measured and true vertical depths for all markers and zones between the work, I well is directionally drilled. Give subsurface locations and measured and true vertical depths for all markers and zones between the work, I well a direction and the control of the work, I we will be directed to the work, I we will be directed to the work, I we will be directed to the work, I was a substance of the work		15. BLEVATIONS (Show whether	OF, RT GR, etc.)	12. COUNTY OR PARISH 18. STATE
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SHOOT OR ACIDIZE ABANDON* CHANGE FLANS CHANGE FLANS (Other) (TEST WATER SHUT-OFF	ULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
REPAIR WELL CHANGE PLANS (Other) (Note: Report results of multiple completion on Well (Note: Report results of multiple completion on Wel	FRACTURE TREAT	ULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING
(Other) (Note: Report results of multiple completion on Well Completion on Personal Other Completion on Personal Other Completion on Personal Other Completion on Personal Other Personal	SHOOT OR ACIDIZE	BANDON*	SHOOTING OR ACIDIZING	ABANDONMENT* X
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SIGNED Regulatory Compl. Admin. DATE 10/17/88				
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Instructions

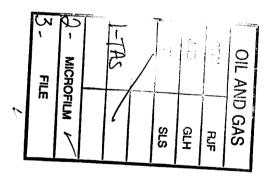
General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

Data on Present Zone

Wasatch Zone: Abandoned perforations at 9795-11,926' OA and 12,252-12,945' OA



Sonat-Strand-Baranger #1-23B2 Section 23, T2S, R2W Duchesne County, Utah

- 1. MI/RU well service unit on 9/15/88.
- 2. Pumped 200 bbls of production water at 1400 psi to clear tubing.
- 3. ND wellhead. NU BOP.
- 4. Released 2-7/8" tubing from Otis "WB" packer at 9370'. POOH with 160 joints.
- 5. RU hot oiler and pumped 70 bbls of 250° formation water down tubing and out casing. Hooked up rig pump. Circulated 200 bbls formation water down tubing and up casing to pit. POOH.
- 6. RIH with 126 joints 2-7/8" tubing. The well blew out. Circulated oil and gas out of the casing. FGIH with tubing. Pumped 100 bbls of 250° formation water with hot oiler, followed by 150 bbls 160° formation water with rig pump. Circulated oil and gas out of the casing with 300 bbls formation water.
- 7. Latched into "WB" packer at 9370'. Established injection rate of 3-1/2 BPM at 1700 psi. Pumped 100 sx C1 "G" cement below packer at 9370-9828'. Unstung from packer. Spotted 50 sx C1 "G" cement on top of the packer from 9370-9141'. POOH. Laid down 27 joints of tubing.
- 8. Stopped to change slip dies and tubing stuck at 8524'. Made manual back off at 5740'. Spotted 20 sx Cl "G" cement on top of fish. POOH with 184 jts 2-7/8" tubing. Left 8 jts in the hole to cement 7-5/8". Cement work witnessed and approved by Gary Gardner, State of Utah, Oil, Gas, and Mining.
- 9. Pumped into 10-3/4" casing with 50 sx C1 "G" cement with 2% chloride from surface to 360'. Cemented 7-5/8" casing from surface to 240' with 50 sx C1 "G" with 2% chloride. POOH.
- 10. ND BOP's. NU wellhead. RD/MO well service rig.
- 11. Cut off conductor pipe, 10-3/4" and 7-5/8" casing. Filled 10-3/4" x 7-5/8" with 4 sx Cl "G" cement to surface. Welded steel plate on top of casing with well data as per Gary Gardner, State of Utah, Oil, Gas, and Mining.
- 12. Well P&A'd 9/21/88. The location is being cleared and restored. Estimated completion of project ±November 15, 1988.



APPLIED DRILLING SERVICES, INC.

OILFIELD CONSULTANTS AND OPERATIONS MANAGEMENT

Rt. 1 Box 1764
Roosevelt, Utah 84066
801-722-5087 January 24, 1989

P.O. Box 620554 Littleton, Colorado 80127 303-973-6189

Ms Arlene Sollis Division of Oil, Gas and Mining 355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203

DIVISION OF OIL, GAS & MINING

Dear Arlene:

35 = W-2 13-013Enclosed are the final records and land owners agreements between Sonat Exploration Company and the land owners on the Dean 1-7Cl, Washburn 1-2C2 and Barranger 1-23B2. As indicated in my conversation with Jim Thompson, these agreements will satisfy your records so that Sonat's bond might be released.

43.012.30729

If you should have any questions, please feel free to contact me at 801-722-5087.

Sincerely,

Cary Smith, President

APPLIED DRILLING SERVICES, INC.

Enclosures

S@NAT EXPLORATION

October 26, 1988

Baranger #1-23B2 Duchesne County, UT

> 25 201 5 23 10

This will confirm our understanding that you agree that Sonat Exploration Company has adequately restored the surface of the subject land to your satisfaction and do hereby release Sonat Exploration Company, its successors and assigns from any action, claim or demand against it occasioned by the drilling of the subject well.

Please acknowledge by signing in the space provided below.

Thank you for your cooperation.

Sincerely,

M. J. Simon

Drilling Manager

MJS:by

Accepted and agreed to this 2 day of

For the sum of \$1.00 and other consideration, landowner has been contracted to close the emergency pit on this location within seven (7) days of the date of this agreement.

(Signed)